

Product datasheet for **MR225613**

Prom1 (NM_008935) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_008935) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prom1
Synonyms:	4932416E19Rik; AC133; CD133; Prom; Prom-1; Proml1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225613 representing NM_008935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAGAAGTCCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGTTTACATCTCAGTTGATTTCCAAGGAGA
 TTGCCCTCTATGAGATCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCT
 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
 CAGAATGCGCCATGCAGGAGGAAGTCTTGGGCCCTCTCCCTCTGGTATTTGTCTGCTCATGAGCCTTG
 GCATTATATATGGCTTTGTGGCTAACCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAAACTGGCAA
 GAGCAATTTAGAGACTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTTGACTATGTAGTGGAGCAG
 TACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCATCGGCTCCGTGCTGGGAGGCAGATAA
 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAAGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
 ACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTACTGTACCTCAGATCCAG
 CCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATTCAGTCAGCT
 CCCATCAGTGGATAGAGAAGTCAACACTGTTACTGAAGTCGACAAAAGTACTGAGAGAGCCTCGTCAA
 AAGGGGTATACGACAATTGATGAAATACCAATACAATACAAAACCAAAGTGGATGTCATCAAAGACG
 TCAAATAACCTTGGACTCCATTAGCTCCAATTAAGGACATGAGCCAAAGTATTCCTATTGAGGAAAT
 GCTGTTACAGGTCTCCCATACCTTAATAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAA
 GAATATGACTCGTACTGGTGGCTGGGTGGCTTATTGTCTGCTTTCTGCTGACTCTCATTGTGACCTTCT
 TTTTCTGGGCTTGTGTGTGGTGTGTTGGCTATGACAAGCATGCCACCCCACTAGAAGAGGCTGTGT
 GTCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTTCGCTTCTTTTTTGTGGATATTGATG
 ATCCTTGTGGTCTTACGTTTGTGTTGGTGCAAATGTGGAAAAGTTGCTCTGCGAACCTTATGAAAACA
 AGAAATATTACAGGTTTTGGACTCCCTATCTGCTCAAGGAACAATGGCAATTTATCTTTCTGGCAT
 GCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTGAGGT
 ATATATGTGCTTTTCAGCTTGAAGTGTGTCACGTCAGTATCATTCAACATTGACCAGATTTCTG
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 AAGGAAGAGCCTCGAGGACTTTGCACATCTGGGATAGATACAATCGATTATCCACATACTTGAAGGAG
 ACTGAGAAATCCCTACTGAAGTGAATCTGCTGACATTTGCCTCTACCCTGGAAGCAAAGCAAACCAAGT
 TGCTGAAAGGAAAGCTGAAACAGGCCTTCTACTGGATGTACAGAATATAAGAGCCATCCACCAGCATCT
 CCTCCCTCTGTGCAGCAATCACTGAATACGTTAAGACAAAGTGTCTGGACCCCTCCAGCAAACAAGCAAC
 AAGTTGCCGGAGAAAGTGAAGAAGATCCTTGCCTTTGGACTCTGTTTACGATTTTCTCACCATAACG
 TTTCCCTCATCGTTATCGGGAAACGAAGAAGTTTGGAAAACAATACTAGGCTACTTTGAACATTATCT
 GCACTGGGTCTTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCCGATGGACTCT
 GCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAG
 CCACGGTCTCTTACTTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTC
 AGAGGATGTATACGACGATGTTGAGACTGTGCCATGAAAAATTTGAAAATCGGTAGTAATGGTTATCAT
 AAAGATCATTTATATGTTGTTCAATCCTGTTATGACAAGCCCGTCTCGATAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225613 representing NM_008935
 Red=Cloning site Green=Tags(s)

MALVFSALLLLGLCGKISSEGPAPFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKVMVHIFLNVVQPND
 FPLDLIKKLIQKNFDISVDSKEIALYEIGVLICAILGLLFIILMPLVGCFFCMCRCCNCGGEMHQRQK
 QNAPCRRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLETETPKQIDYVVEQ
 YNTNKNKAFSDLGIGSVLGGRIKDLKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAATQLN
 TNLSSVRNSIENSLSSDCTSDPASKICDSIRPSLSSLGSSLNSSQLPSVDRELNTVTEVDKTDLESLVK
 RGYTTIDEIPNTIQNQTVDIKDVKNLTDISSNIKDMQSQSIPIEDMLLQVSHYLNNSRYLNQELPKLE
 EYDSYWWLGGILVCFLLTLIVTFFFLGLLCGVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGLFCWILM
 ILVVLTFVVGANVEKLLCEPYENKLLQVLDTPYLLKEQWQFYLSGMLFNNPDINMTFEQVYRDCKRGRG
 IYAAFQLENNVNSDFHIDQISENINTELENLNVNIDSIELLDNTGRKSLEDFAHSGIDTIDYSTYLKE
 TEKSPTEVNLLTFASTLEAKANQLPEGKLNKQAFLLDVQNRIRAIHQHLLPPVQQLNLRQSVWTLQQTSN
 KLPEKVKKILASLDSVQHFLLTNNVSLVIGETKKFGKILGYFEHYLHWVFYAITKMTSCKPMATAMDS
 AVNGILCGYVADPLNLFWFGIGKATVLLLPAVIAIAIKLAKYYRRMDSQVYDDVETVPMKNLEIGSNYH
 KDHLVGVHNPVMTSPSRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

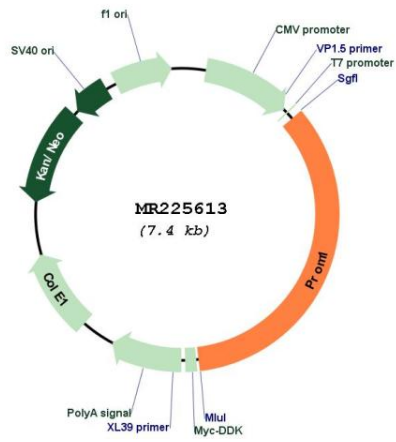
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_008935
ORF Size:	2574 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_008935.2 , NP_032961.2
RefSeq Size:	3739 bp
RefSeq ORF:	2577 bp
Locus ID:	19126
Cytogenetics:	5 B3
MW:	96.6 kDa
Gene Summary:	May play a role in cell differentiation, proliferation and apoptosis. Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis (PubMed:19228982). Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225613